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Shimizu, Nobuyoshi
Mizuno, Yoshikuni

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<140> 10/776,604

<141> 2004-02-12

<150> 09/601,844

<151> 2000-08-09

<150> PCT/JP99/00545

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Trp Thr Val Gln Asn Cys Asp Leu Asp Gln Gln Ser Ile Val His Ile
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gct gga agt cca gca ggt aga tca atc tac aac agc ttt tat gtg tat      548
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Glu	Leu	Arg	Asn	Asp	Trp	Thr	Val	Gln	Asn	Cys	Asp	Leu	Asp	Gln	Gln	50	55	60	
Ser	Ile	Val	His	Ile	Val	Gln	Arg	Pro	Trp	Arg	Lys	Gly	Gln	Glu	Met	65	70	75	80
Asn	Ala	Thr	Gly	Gly	Asp	Asp	Pro	Arg	Asn	Ala	Ala	Gly	Gly	Cys	Glu	85	90	95	
Arg	Glu	Pro	Gln	Ser	Leu	Thr	Arg	Val	Asp	Leu	Ser	Ser	Ser	Val	Leu	100	105	110	
Pro	Gly	Asp	Ser	Val	Gly	Leu	Ala	Val	Ile	Leu	His	Thr	Asp	Ser	Arg	115	120	125	
Lys	Asp	Ser	Pro	Pro	Ala	Gly	Ser	Pro	Ala	Gly	Arg	Ser	Ile	Tyr	Asn	130	135	140	
Ser	Phe	Tyr	Val	Tyr	Cys	Lys	Gly	Pro	Cys	Gln	Arg	Val	Gln	Pro	Gly	145	150	155	160
Lys	Leu	Arg	Val	Gln	Cys	Ser	Thr	Cys	Arg	Gln	Ala	Thr	Leu	Thr	Leu	165	170	175	
Thr	Gln	Glu	Phe	Phe	Phe	Lys	Cys	Gly	Ala	His	Pro	Thr	Ser	Asp	Lys	180	185	190	
Glu	Thr	Pro	Val	Ala	Leu	His	Leu	Ile	Ala	Thr	Asn	Ser	Arg	Asn	Ile	195	200	205	
Thr	Cys	Ile	Thr	Cys	Thr	Asp	Val	Arg	Ser	Pro	Val	Leu	Val	Phe	Gln	210	215	220	
Cys	Asn	Ser	Arg	His	Val	Ile	Cys	Leu	Asp	Cys	Phe	His	Leu	Tyr	Cys	225	230	235	240
Val	Thr	Arg	Leu	Asn	Asp	Arg	Gln	Phe	Val	His	Asp	Pro	Gln	Leu	Gly	245	250	255	
Tyr	Ser	Leu	Pro	Cys	Val	Ala	Gly	Cys	Pro	Asn	Ser	Leu	Ile	Lys	Glu				

260	265	270
Leu His His Phe Arg Ile Leu Gly Glu Glu Gln Tyr Asn Arg Tyr Gln 275 280 285		
Gln Tyr Gly Ala Glu Glu Cys Val Leu Gln Met Gly Gly Val Leu Cys 290 295 300		
Pro Arg Pro Gly Cys Gly Ala Gly Leu Leu Pro Glu Pro Asp Gln Arg 305 310 315 320		
Lys Val Thr Cys Glu Gly Gly Asn Gly Leu Gly Cys Gly Phe Ala Phe 325 330 335		
Cys Arg Glu Cys Lys Glu Ala Tyr His Glu Gly Glu Cys Ser Ala Val 340 345 350		
Phe Glu Ala Ser Gly Thr Thr Thr Gln Ala Tyr Arg Val Asp Glu Arg 355 360 365		
Ala Ala Glu Gln Ala Arg Trp Glu Ala Ala Ser Lys Glu Thr Ile Lys 370 375 380		
Lys Thr Thr Lys Pro Cys Pro Arg Cys His Val Pro Val Glu Lys Asn 385 390 395 400		
Gly Gly Cys Met His Met Lys Cys Pro Gln Pro Gln Cys Arg Leu Glu 405 410 415		
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1				5				10						15

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			20					25					30		
Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys
		35					40					45			
Gln	Leu	Glu	Asp	Gly	Arg	Thr	Leu	Ser	Asp	Tyr	Asn	Ile	Gln	Lys	Glu
	50					55					60				
Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly				
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                20              25              30

Lys  Glu  Gly  Ile  Pro  Pro  Asp  Gln  Gln  Arg  Leu  Ile  Phe  Ala  Gly  Lys
                35              40              45

Gln  Leu  Glu  Asp  Gly  Arg  Thr  Leu  Ser  Asp  Tyr  Asn  Ile  Gln  Lys  Glu
        50              55              60

Ser  Thr  Leu  His  Leu  Val  Leu  Arg  Leu  Arg  Gly  Gly
65              70              75

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20 25 30

Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys
35 40 45

Gln Leu Glu Asp Gly Arg Thr Leu Ala Asp Tyr Asn Ile Gln Lys Glu
50 55 60

Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly
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Gly Pro Ser Cys Trp Asp Asp Val Leu Ile
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1 5

37

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Val His Leu Ala Gly Met Met Phe
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